Form PTO-1449 (Rev. 8-83)

U.S. Department of Commerce Patent and Trademark Office

Attorney Docket No. 0756-2222

Serial No. Not Yet Assigned

Applicant: Shunpei YAMAZAKI et al.

Filing Date: October 31, 2000 Group: 2823

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

Examiner	Document Number	Date	Name	Class	Subclass	Filing Data
Initial	Document Number	Date	Ivallie	CidSS	Subclass	Filing Date (if appropriate)
AKS	5,403,772	04/04/95	Zhang et al			
AKS	5,426,064	06/20/95	Zhang et al			
AICS	5,481,121	01/02/96	Zhang et al	•		ot diagram
AIC	5,488,000	01/30/96	Zhang et al			946
ARCS	5,492,843	02/20/96	Adachi et al			69
Accs	5,501,989	03/26/96	Takayama et al			160
ARS	5,508,533	04/16/96	Takemura			, n
AKCS	5,529,937	06/25/96	Zhang et al			
AKS	5,534,716	07/09/96	Takemura			
AKS	5,543,352	08/06/96	Ohtani et al			
ALCS	5,563,426	10/08/96	Zhang et al			
AICS	5,569,610	10/29/96	Zhang et al			
AICS	5,569,936	10/29/96	Zhang et al			
AICS	5,580,792	12/03/96	Zhang et al			
AICS	5,585,291	12/17/96	Ohtani et al			
AICS	5,589,694	12/31/96	Takayama et al	j		
Acs	5,550,070	08/27/96	Funai et al.			
Acc	5,639,698	06/17/97	Yamazaki			
Acs	4,597,160	07/01/89	lpri			
AKS	5,504,019	04/02/96	Miyasaka et al.		1 1 1	
AKS	4,546,376	10/08/85	Nakata et al.		i	
AKS	4,996,077	02/26/91	Moslehi et al.	2000	1	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AKS	R.J. Nemanich et al, "Structure and Growth of the Interface of Pd on α-SiH", The American Physical Society - Physical Review, Vol. 22, No. 12, pp. 6828-6831, June 1981
AKS	M.J. Thompson et al, "Silicide Formation in Pd-α-Si:H Schottky Barriers", Appl. Phys. Lett., Vol. 39, No. 3, pp. 274-276, August 1981

R.J. Nemanich et al, "Initial Phase Formation at the Interface of Ni, Pd, or Pt and Si", Mat. Res. Soc. Symp. Proc., Vol. 25, 1984

Examiner Ason My Sarhar Date Considered 4/3/01

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Applicant: Shunpei YAMAZAKI et al.

09/699,466

(Use several sheets if necessary)			Filing Date: October 31,	Group: 2823	Group: 2823	
		S. PATENT	DOCUMENTS	Ÿ.		···
Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
AKS	5,595,923	01/21/97	Zhang et al	,	Ì	
AICS	5,595,944	01/21/97	Zhang et al			
Arcs	5,604,360	02/18/97	Zhang et al			
AICS	5,605,846	02/25/97	Ohtani et al			
ALCS	5,606,179	02/25/97	Yamazaki et al			
AICS	5,608,232	03/04/97	Yamazaki et al			
AFCS	5,612,250	03/18/97	Ohtani et al			
Arcs	5,614,426	03/25/97	Funada et al	ŀ		
AICS	5,614,733	03/25/97	Zhang et al			
AICS	5,616,506	04/01/97	Takemura			
AICS	5,620,910	04/15/97	Teramoto			
AICS	5,621,224	04/15/97	Yamazaki et al			
ALCS	5,624,851	04/29/97	Takayama et al			
AKS	5,637,515	06/10/97	Takemura			
	5,639,698	06/17/97	Yamazaki et al		Replated	
AKS	5,643,826	07/01/97	Ohtani et al			
ALS	5,646,424	07/08/97	Zhang et al			
AICS	5,654,203	08/05/97	Ohtani et al			
AICS	5,656,825	08/12/97	Kusumoto et al			
AICS	5,663,077	09/02/97	Adachi et al			
AICS	5,700,333	12/23/97	Yamazaki et al			·
	OTHER DOCUME	NTS (Including	Author, Title, Date, Pertin	ent Pages, E	Etc.)	
AK						
AKS	Kawazu, "Initial Stage of the Interfacial Reaction between Nickel and Hydrogenated Amorphous Silicon" Japanese Journal of Applied Physics, Vol. 29, No. 4, April 1990, pgs. 729-738.					
Wolf et al., "Silicon Processing for the VLSI Era", Vol. 1, pgs 550-551, 1986.						
Examiner As Su Unway Sarlay Date Considered 4/3/01						
*EXAMINE	ER: Initial if citation considered, whethout in conformance and not considered	er or not citation	on is in conformance w y of this form with next	vith MPEP communi	609; Draw line cation to appli	e through cant.

Form PTO-1449 U.S. Department of Commerce Attorney Docket No. 0756-2222 Serial No. Not Yet Assigned (Rev. 8-83) Patent and Trademark Office 699,466 Applicant: Shunpei YAMAZAKI et al. INFORMATION DISCLOSURE STATEMENT Filing Date: October 31, 2000 Group: 2823 (Use several sheets if necessary) **U.S. PATENT DOCUMENTS Document Number** Examin Date Name Class Subclass Filing Date er Initial (if appropriate) 5,744,822 04/28/98 Aic s Takayama et al. 257 66 AICS 5,744,824 04/28/98 Kousai et al. 74 257 17564 5,766,977 06/16/98 Yamazaki 438 151 Aus 5,773,846 06/30/98 Zhang et al. 257 66 AICC 5,773,847 06/30/98 Hayakawa 257 66 Me 06/30/98 5,773,327 Yamazaki et al. 438 154 Aue 5,795,795 08/18/98 Kousai et al. 437 174 me 5,808,321 09/15/98 72 Mitanaga et al. 257 AICS 5,811,327 09/22/98 Funai et al. 438 166 5,818,076 10/06/98 Zhang et al. 5,821,138 10/13/98 Yamazaki et al. 438 166 $\mathcal{H}\mathcal{C}$ 5,824,574 10/20/98 Yamazaki et al. 438 150 AICC 5,677,549 10/14/97 Takayama et al. 5,696,386 12/09/97 AKS Yamazaki AICC5,696,388 12/09/97 Funada et al. AICS 5,705,829 01/06/98 Miyanaga et al. AICS 5,712,191 01/27/98 Nakajima et al. PACC 5,756,364 05/26/98 Tanaka et al. FOREIGN PATENT DOCUMENTS Country **Document Number** Class Subclass Date Translation Yes No Swellar Examiner A-5 De Million **Date Considered**

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INFORMATION DISCLOSURE STATEMENT		Applicant: Shunpei Yamazaki et al.		09/699	466	
	(Use several sheets if necessary)		Filing Date: October 31, 2000		Group: 2823	
		U.S. PATENT	DOCUMENTS			
Examin er Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if approp.)
Acs	5,043,224	08/27/91	Jaccodine et al.			
AKS	5,075,259	12/24/91	Moran			
AICS	5,112,764	05/12/92	Mitra et al.			
AICS	5,145,808	09/08/92	Sameshima et al.			
AICS	5,147,826	09/15/92	Liu et al.			
Alcs	5,173,446	12/22/92	Asakawa et al.			
AICS	5,200,630	04/06/93	Nakamura et al.			_
AICC	5,221,423	06/22/93	Sugino et al.			
AKS	5,225,355	07/06/93	Sugino et al.			
AICS	5,244,836	09/14/93	Lim			
AICS	5,254,480	10/19/93	Tran			
AICS	5,262,350	11/16/93	Yamazaki et al.			
AKS	5,262,654	11/16/93	Yamazaki			
AICS	5,275,851	01/04/94	Fonash et al.			
AICS	5,278,093	01/11/94	Yonehara			
AICS	5,289,030	02/22/94	Yamazaki			
AICS	5,296,405	03/22/94	Yamazaki et al.	. کمنی		
AICS	5,298,075	03/29/94	Lagendijk et al.	AFF BF		
AICS	5,308,998	05/03/94	Yamazaki et al.			
AICS	5,313,075	05/17/94	Zhang et al.			
AKS	5,352,291	10/04/94	Zhang et al.			
AKS	5,358,907	10/25/94	Wong			
AKS	5,366,926	11/22/94	Mei et al.			
	5,403,772	04/04/95	Zhang et al.			
AKS	5,424,230	06/13/95	Wakai			
AKS	5,480,811	01/02/96	Chiang et al.			

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•	5,481,121	01/02/96	Zhang et al.				
	5,488,000	01/3 0/9 6	Zhang_et al.				
	5,492,843	02/20/96	Adachi et al.				
	5,529,937	06/25/96	Zhang et al.		_		
Aics	5,531,182	07/02/96	Yonehara				
	5,543,352	08/06/96	Ohtani et al				
AKG	, 4,059,461	11/22/77	Fan et al.			mar.	
AICSA	MS 4,086,020	01/10/78	Reuschel				/
AICU	4,132,571	01/02/79	Cuomo et al.				
Alcs	4,174,217	11/13/79	Flatley				
AICS	4,226,898	10/07/80	Ovshinsky et al.				
AICS	4,231,809	11/04/80	Schmidt				
AICS	4,271,422	06/02/81	lpri				
AKS	4,277,884	07/14/81	Hsu				
AKS	4,300,989	11/17/81	Chang				
AKS	4,309,224	01/05/82	Shibata				
AKS	4,331,709	05/25/82	Risch et al.				
AICS	4,379,020	04/05/96	Glaeser et al.				
AKS	4,409,724	10/18/83	Tasch, Jr. et al.				
AICS	4,534,820	08/13/83	Mori et al.				
AICS	4,544,418	10/01/85	Gibbons				
AKS	4,634,473	01/06/87	Swartz et al.				
AKS	4,755,481	07/05/88	Faraone #				
AKS	4,959,247	09/25/90	Moser et al.				
AKS	3,783,049	01/01/74	Sandera				
AICS	RE 28,385	04/08/75	Mayer /				
AKS	RE 28,386	04/08/75	Heiman et al.	1			
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	FO	REIGN PATE	NT DOCUMENTS	•			
	Document Number	Date	Country	Clas	ss	Subclass	Translation Yes No
AKS	3-280418	11/12/91	Japan				Abstract
AICS	1-187875	07/27/89	Japan				Abstract
AKS	1-187874	07/27/89	Japan				Abstract
AKS	2-275641	09/11/90	Japan				Abstract

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AKS.	61-63107	04/01/86	Japan	i	1	Abstract
AKS	3-280420 (Japanese & English)	12/11/91	Japan			Full
AICS.	5-82442	04/02/93	Japan			Abstract
A-ICS	7-16 34	06/23/95	Japan			Abstract
Aics	2-140915	05/20/90	Japan			Full
AICS	1-206632	08/18/89	Japan			Abstract
AKS	52 -99348	11/93	Japan		1	Abstract
AICS	0178447	09/10/84	European			Full
AKS	6-0105216	10/06/85	Japan			Full
AKS	1187814	02/27/89	Japan			Full
	OTHER DOCUMENTS (Including Au	thor, Title, Date, Pertinent	Pages, Et	tc.)	
AKS	S. Lau et al., "Solid Phase Epitax	y in Silicide	Forming System", Thin Sc	lid Films,	47 (1977) p	p. 313-322
AKS	I.W. Boyd et al., "Oxidation of Sili 15, 1962, pp. 162-164	con Surface	s by CO ₂ Lasers", Applied	Physics L	etters, Vol.	41, No. 2, July
AKS	S.K. Ghandi, VLSI Fabrication Principles, John Wiley & Sons, 1983, pp. 419-429					
AICS	P.Zorabedian et al., "Lateral Seeding of Silicon-on-Insu"					
AKS	T. Hempel et al., "Needle-Like Crystallization of Ni Doped Amorphous Silicon Thin Films", Solid State Communications, Vol. 85, No. 11, pp. 921-924, (1993)					
AICS	A.V. Dvurechenskii et al., "Transport Phenomena in Amorphous Silicon Doped by Ion Implantation of 3d Metals", Akademikian Lavrentev Prospekt 13, 630090 Novosibirsk 90, USSR, pp. 635-640, Phys. Stat, Sol. (1986)					
AKS	Kawazu et al., "Low Temperature Crystallization of Hydrogenated Amorphous Silicon Induced by Nickel Silicide Formation", Institute of Applied Physics, Vol. 29, No. 12, pp. 2698-2704, Dec. 1990					
AKU	Wolf et al., "Silicon Processing for the VLSI Era Vol. 1: Process Technology", Lattice Press 1986, pp. 215-216					
AICS	R Kakkad et al. "Crystallized Si Films by Low-Temperature Rapid Thermal Appealing of Amorphous					
AICS	G. Liu et al., "Polycrystalline Silicon Thin Film Transistors on Corning 7059 Glass Substrates Using Short Time, Low-Temperature Processing," Appl. Phys. Lett. 62(20), May 17, 1993, pp. 2554-2556.					
AICS	G. Liu et al. "Selective Area Crystallization of Amorphous Silicon Films by Low-Temperature Rapid Thermal Annealing", Appl. Phys. Lett 55(7), August 14, 1989, pp. 660-662.					
AKS	R. Kakkad et al., "Low Temperature Selective Crystallization of Amorphous Silicon", Journal of Non-Crystalline Solids, 115, 1989, pp.66-68.					
AKS	F. Oki et al., Jpn. J. Appl. Phys., 8 (1969) 1056 "Effect of Deposited Metals on the Crystallization Temperature of Amorphous Germanium Film".					
AICS	T.B. Suresh et al., Thin Solid Films, 252 (1994) 78 "Electroless Plated Ni Contacts to Hyrogenated Amorphous Silicon", 12/94					
AICS	F. Spaepen et al., Crucial Issued in Semiconductor Materials & Processing Technologies, "Metal-Enhanced Growth in Silicon", (1992) 483-99, 11/92					
AKS	Wolf et al., "Silicon Processing for the VLSI Era", Vol. 1, pp. 207-211, 1986					

	09/699,460					
AICS.	Hatalis et al. "High Performance TFTs in Low Temperature Crystallized LPCVD Amorphous Silicon Films", Elec. Dev. Letters Vol. EDL 8, No. 8, August, 1987					
ALCS.	S.Takenaka et al., Jpn. J. Appl. Phys. Vol 29 No. 12, December 12, 1990; pp. L2380-2383, "High Mobility Poly-Si Thin Film Transistors Using Solid Phase Crystallize a-Si Films Deposited by Plasma Enhanced Chemical Vapor Deposition"					
Aics	J.M. Green et al., IBM Tech. Discl. Bulletin, Vol. 16 No. 5, October 1973, pp. 1612-1613 "Method to Purify Semiconductor Wafers"					
AKS	C. Hayzelden et al., J. Appl. Phys., 73, 12; 6/15/93; pp. 8279-8289, "Silicide Formation and Silicide Medicated Crystallization of Nickel-Implanted Amorphous Silicon Thin Films"					
AKS	A.Y. Kuznetsov et al., Inst. Phys. Conf. Ser. #134.4; proceedings of Royal Microscopical Society Conf.; April 5-8, 1993; p. 191-194; "Silicide Precipitate Formation and Solid Phase Regrowth of Ni-implanted Amorphous Silicon"					
AICS	Y.N. Erokhin et al., Appl. Phys. Lett., 63, 23; Dec. 6, 1993; pp. 3173-3175; "Spatially Confined NiSi ₂ Formation at 400° C on lon Implantation Preamorphized Silicon"					
AICS	J. Stoemnos et al.; Appl. Phys. Lett., 58, 11; March 18, 1991; pp. 1196-1198; "Crystallization of Amorphous Silicon by Reconstructive Transformation Utilizing Gold"					
AICS	J.L. Batstone et al., Solid State Phenomena, Vols. 37-38 (1994); "Microscopic Processes iun Crystallization"					
AICS	A Y Kuznetsov et al. Nucl. Instruments Methods Physics Research, 880/81 (1993), pp. 990-93. "Enhanced					
AKS	R.C. Cammarata et al., J. Mater. Res., Vol. 5, No. 10; Oct. 10, 1990; pp.2133-38; "Silicide Precipitation and Silicon Crystallization in Nickel Implanted Amphorous Silicon Thin Films"					
AICS	A.Y. Kuznetsov et al., Inst. Phys. Conf. Ser. #134.4; Proceedings of Royal Microscopical Society Conf.; April 5-8, 1993; p. 191-194; "Silicone Precipitate Formation and Solid Phase Regrowth of Ni-implanted Amorphous Silicon"					
AICS	J.J.P. Bruines et al., Appl. Phys. Lett, 50, 9 (1987) 507, "Between explosive crystallization and amorphous strength regrowth: Inhomogeneous solidification upon pulsed Laser Annealing of amorphous silicon".					
AKS	S. Caune et al., App. Surf. Sci., 36 (1989) 597, "Combined CW Laser and Furnace Annealing of a Si and Ge in Contact With Some Metals"					
Examiner	As Sh Wiway Sarhay Date Considered 4/3/01					
	Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through in conformance and not considered. Include copy of this form with next communication to applicant.					

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